

Maulik Jyani

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SUMMARY

Software Engineer with experience building **scalable backend services** and deploying **cloud-native systems on AWS**. Comfortable working across **design, coding, testing, CI/CD**, and **production operations**. Strong fundamentals in **Python/Java, microservices**, and **SQL**, with a focus on **reliability, clean design**, and **learning fast**. Excited to build products that help millions of people manage their finances.

EDUCATION

MS in Data Analytics

San Jose State University, San Jose, CA

Dec 2024

GPA: 3.5/4.0

Bachelors in Computer Engineering

RK University, Rajkot, India

May 2021

GPA: 3.6/4.0

SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Java, C++ , HTML, CSS

Frameworks: FastAPI, Django, Flask, Node.js, Express.js, React.js, Next.js, Go Fiber, Flutter

Cloud Platforms & DevOps: AWS (EC2, RDS, S3, Lambda, CloudWatch, ECS), Google Cloud, Docker, Terraform, Kubernetes, GitHub Actions, CI/CD, Vercel

Databases: PostgreSQL, MySQL, MongoDB, Amazon Redshift, Redis, Firebase, Supabase, SQLite

Data Engineering: Apache Spark, Apache Airflow, Snowflake, Hive, Kafka, AWS Kinesis, Data Warehousing, LLM/RAG

Tools: Git, Swagger, OpenAPI, Prometheus, Grafana

Concepts: Distributed Systems, Microservices, System Design, Scalable Systems, AI/ML Integrations, Prompt engineering, LLM-based automations, RAG pipelines

WORK EXPERIENCE

Software Engineer | AlgoDelta (Rajkot, India)

Nov 2020 – Jan 2023

- **Reduced hospital staff response time by 60%** by **architecting Node.js microservice** processing **1000+ daily sensor readings** across **10+ hospital deployments** with **MQTT** and **Firebase** integration.
- **Extended battery life from 12 hours to 3+ days** through adaptive sampling algorithm while maintaining **99.2% data sync reliability** across 4 BLE health sensors in 24/7 patient monitoring.
- Implemented **offline-first architecture with SQLite buffering** and auto-sync logic, achieving **zero data loss** during Bluetooth disconnections across production deployments.
- **Reduced deployment time by 40%** by containerizing services, automating CI/CD via GitHub Actions, and improving release reliability on AWS EC2
- Built centralized data validation layer with strict type checking and unified validation logic across firmware, backend, and app, **reducing validation bugs by 85%** and improving data integrity.

Software Engineer Intern | AlgoDelta (Rajkot, India)

Aug 2020 – Nov 2020

- Built cross-platform Flutter service marketplace connecting customers with providers, **increasing transaction volume by 35%** in pilot testing
- Designed responsive UI and booking workflows improving task completion efficiency in user testing phase; contributed to code reviews and API documentation using Swagger, improving clarity and reducing integration effort across teams
- Integrated **RESTful backend APIs and Razorpay payment gateway**, enabling secure real-time transactions across platform

PROJECTS

ChatCraft - Chatbot-as-a-Service (CaaS) Platform

[GitHub](#)

- Architected an **RAG-based enterprise chatbot platform** that ingests documents, performs vector search, and delivers context-aware answers with LLMs, achieving **90%+ context accuracy**
- Integrated **CI/CD pipelines** and implemented **unit/integration tests** to ensure code reliability and reduce regressions

Restro - Cloud-Native Restaurant Booking Platform

[GitHub](#)

- Built a cloud-native restaurant booking system using **Django, React, and Next.js**, deployed on AWS EC2 with **load balancing** and **auto scaling** for peak traffic handling
- Designed APIs with **OpenAPI 3.0 Specifications** & integrated **Google Maps API** for restaurant location search availability

CampusHub - Full-Stack Campus Marketplace

[GitHub](#)

- Architected Golang backend with JWT authentication and RBAC serving **1,200+ users**; integrated **webhook-based real-time chat reducing latency by 60%** on AWS EC2 with auto-scaling achieving **99.9% uptime**.
- Optimized MongoDB schemas with compound indexes **reducing query time by 35%**; integrated **OpenAI search and recommendation engine** improving user engagement and streamlining platform usage.

CERTIFICATION

AWS Certified AI Practitioner - 2025 (AIF-C01)